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ASBESTOS IDENTIFICATION SURVEY
3105 HOLBROOK STREET
HAMTRAMCK, MICHIGAN

for

CITY OF HAMTRAMCK
3401 EVALINE STREET
HAMTRAMCK, MICHIGAN

AKT PEERLESS PROJECT NO. 6476D-4-190
JUNE 11, 2010

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ASBESTOS SURVEY
3105 HOLBROOK
HAMTRAMCK, MICHIGAN

FOR

CITY OF HAMTRMCK
HAMTRAMCK, MICHIGAN

AKT PEERLESS PROJECT NO. 6476D-4-190

1.0 INTRODUCTION

The City of Hamtramck retained AKT Peerless Environmental & Energy Services (AKT Peerless) to conduct an asbestos survey for the building located at 3105 Holbrook in Hamtramck, Michigan. AKT Peerless' scope of work is based on its proposal PA-10869 dated May 12, 2010, and the terms and conditions of the agreement.

1.1 PURPOSE

The purpose of AKT Peerless' asbestos survey is to: (1) identify and locate suspect Asbestos Containing Materials (ACM), (2) establish a sampling plan, based on homogeneous and functional areas, to sample and assess significant sources of friable and non-friable suspect ACM, (3) quantify the amount of asbestos ACM identified at the property, (4) conduct a physical assessment of friable and non-friable suspect asbestos containing building materials (ACBM), and (5) prepare a final report documenting ACM and Presumed Asbestos Containing Materials (PACM) quantities, locations, and results.

All samples collected were submitted with chain-of-custody documentation to an analytical laboratory that participates in the National Voluntary Laboratory Accreditation Program (NVLAP). All samples were analyzed using polarized light microscopy (PLM) with dispersion staining following U.S. Environmental Protection Agency (USEPA) Test Method (EPA-600/M4-82-020) and the National Institute of Standards and Technology (NIST) Bulk Asbestos Handbook. In an effort to minimize costs, AKT Peerless used first positive stop analysis methodologies. First positive stop involves analyzing samples by homogeneous area groupings. Laboratory analyses were performed sample by sample, within each homogeneous area grouping, until a sample was determined to be asbestos containing.

1.2 LIMITATIONS AND EXCEPTIONS OF THE SURVEY

Locating and identifying building materials that contain asbestos is a difficult and time-consuming task. All buildings have hidden spaces that may not be immediately obvious to a surveyor who is not intimately familiar with the building and who has only a limited time in the building. Complicating this task is the fact that asbestos was used in a variety of building components and in many types of materials in the construction of buildings. In some of these materials, asbestos is present, not as an intentional ingredient, but as a contaminant.

Although AKT Peerless uses trained and licensed inspectors in attempting to locate and identify building materials that contain asbestos, AKT Peerless cannot verify that all ACMs have been identified. It is possible that there are materials or building components that were not found because they were not visible or accessible to the inspection team or for various other reasons were not sampled.

Quantities of identified ACM reported in this document are estimates for reference only and should not be relied upon for abatement bidding purposes. AKT Peerless strongly cautions against utilizing the reported material quantities without field verification. It is expected that contractors will utilize their own quantities when preparing bid pricing. Further, it should be anticipated that there will be other costs associated with the asbestos abatement including engineering and testing fees.

AKT Peerless encountered building-specific limitations during the Asbestos Survey. Areas enclosed by fixed wall systems were restricted to limited visual access. Fixed wall systems include plaster walls with an underlying building structure. These systems are installed in the interior areas of the buildings. As part of the survey, only limited inspection of the internal wall cavities was possible.

2.0 ASBESTOS SURVEY

On May 25, 2010, Mr. Donald Malusi of AKT Peerless conducted an asbestos materials assessment and survey activities associated with the building located at 3105 Holbrook in Hamtramck, Michigan. During the asbestos survey, AKT Peerless noted observable materials (e.g., materials that are readily accessible and visible without dismantling permanent structures, such as walls, floors and ceilings) that may contain asbestos.

3.0 ASBESTOS SURVEY PROCEDURES

The following sections outline the approach, procedures, and methods employed by AKT Peerless to complete the Asbestos Survey of the on-site buildings.

3.1 DESCRIPTION OF HOMOGENEOUS AREAS

During the asbestos survey, AKT Peerless identified Homogeneous Areas based on appearances and type of materials observed. As defined under Asbestos Hazard Emergency Response Act (AHERA), a homogeneous area is an area that appears similar throughout in terms of its color, texture, and date of material application.

In addition, building materials suspect for asbestos content are also described based on one of three material classifications that include:

Surfacing Materials: A material that is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes.

Thermal System Insulation: A material that is applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat lost or gain, or water condensation, or for other purposes.

Miscellaneous Materials: A building material on structural components, structural members, or fixtures, such as floor and ceiling tiles, and does not include surfacing material or thermal system insulation.

During the preparation of this survey, twenty-three (23) homogeneous areas were identified. A description of these materials is provided in the Homogeneous Area Summary Table located in Appendix A.

3.2 DESCRIPTION OF FUNCTIONAL SPACES

AKT Peerless identified twenty-seven (27) Functional Spaces in the building. In general, functional spaces are defined as spatially distinct units or areas within a building, which contain identifiable populations of building occupants. These spaces can include office areas, storage spaces, services areas, etc. However, a functional space can also be delineated based on general building layout, facility use factors, and can be assigned using various arbitrary factors that were useful in the completion of this survey.

The functional spaces are depicted on the floor plan layouts included in Figures 1 through 3. Functional spaces are also listed in Appendix A.

3.3 BULK SAMPLE MATERIAL INVENTORY

Based on the inspection, 23 homogeneous materials were identified during the survey. AKT Peerless collected a total of 52 bulk samples with 61 layers for laboratory analysis.

Samples were collected in polyethylene containers and labeled with an identification number. In general, AKT Peerless' sampling protocol consisted of: (1) extracting a sample with a clean knife, chisel, or coring tool and (2) placing the sample into its properly labeled sample container.

The sampling protocol used to procure the appropriate number of samples for an identified homogeneous area of suspect ACM is based on sampling guidelines outlined under AHERA and is detailed as follows:

3.3.1 Surfacing Materials

Surfacing materials consist of building materials that have been sprayed-on, troweled-on, or otherwise applied to building surfaces for acoustical, fireproofing, or other purposes. Sample locations selected were evenly distributed and representative of the entire survey area. If fewer than nine samples are collected, a random sampling scheme was used to determine the sample locations.

3.3.2 Thermal System Insulation

For thermal system insulation, the number of samples and the sample locations was dependent on local circumstances. However, a minimum of three samples of each homogeneous sampling area

was collected. For long pipe runs and for piping runs that extend into additional functional areas, additional samples were collected as appropriate at the discretion of the accredited inspector. For pipe runs or patched areas of less than 6-linear feet (e.g., where facility repair or re-insulation activities may have occurred), at least one sample was collected. In addition, areas of pipe insulating cement were sampled based on the discretion of the accredited asbestos inspector.

3.3.3 Miscellaneous Materials

Miscellaneous materials consist of interior and exterior building components and are typically located on structural components, structural members, or fixtures, such as floor and ceiling tiles and roofing materials. Sampling of these materials was by delineation of homogeneous areas and functional spaces. Based on the quantities of the materials identified, samples of the suspect materials were collected by the accredited asbestos inspector in a manner sufficient to determine its asbestos content.

Confirmed and assumed ACMs identified quantities, are presented in the Bulk Sample Material Inventory table included in Appendix A.

3.4 LABORATORY ANALYTICAL PROCEDURES

All samples collected were submitted to and analyzed by Fibertec of Holt, Michigan. Fibertec is accredited by the American Industrial Hygiene Association (AIHA) and participates in the NVLAP (NVLAP Lab Code 10150-0). Chain-of-custody guidelines were followed to ensure proper handling and delivery of the samples. The samples were analyzed using PLM with dispersion staining in accordance with the following USEPA guidance document titled: Determination of Asbestos in Bulk Building Materials: EPA/600/R-93/116, and dated July, 1993.

The USEPA defines ACM as those materials that contain greater than one percent asbestos. Friable materials are defined as those that can be crumbled or reduced to powder by hand pressure. The National Emission Standards for Hazardous Air Pollutants (NESHAP) for asbestos, dated November 1990 stipulates that any friable material identified as containing asbestos in concentrations greater than one percent must be considered ACM.

Percentages and types of fibrous components in these samples were determined by visual estimation of the amount of fibrous materials versus the total amount of material present. The Occupational Safety and Health Administration's (OSHA) definition of ACM is any material containing more than one percent asbestos. Materials containing one percent or less of asbestos are considered non-asbestos containing.

AKT Peerless utilized the "positive-stop" method of sample analysis. In this method, analysis is stopped on a group of samples once the first positive (e.g., greater than one percent asbestos) sample is analyzed. According to the USEPA, if one sample of a homogenous material is identified to be asbestos containing, the entire material must be considered asbestos containing.

Based on appearances and type of materials, suspect ACMs were grouped into homogeneous areas and functional spaces as appropriate. Upon completion of these activities, representative bulk samples of the suspect materials were collected. For example, ceiling tile located in

different functional spaces found to be uniform in texture and color and appeared similar in every other respect. This material was considered one homogenous area and was sampled accordingly.

Based on the homogeneous and functional areas identified during the survey, AKT Peerless collected a total of 52 bulk samples for analysis. Samples were collected in polyethylene containers and labeled with an identification number. In general, AKT Peerless' sampling protocol consisted of: (1) extracting a sample with a clean knife or chisel and (2) placing the sample into its properly labeled sample container.
Copies of laboratory datasheets for the bulk suspect ACMs are provided in Appendix B.

4.0 CONCLUSIONS AND RECOMMENDATIONS

AKT Peerless was retained to conduct an Asbestos Survey of the building at 3105 Holbrook in Hamtramck, Michigan. The purpose of the survey was to identify the location of ACMs that will require special handling procedures or removal activities before the conduct of general building renovation, repairs, or demolition activities. The following sections of this report summarize the findings of the Asbestos Survey.

4.1 ASBESTOS CONTAINING MATERIALS

Based on the results of the asbestos survey, AKT Peerless identified the following ACMs:

3105 Holbrook 23 Homogeneous Areas & 27 Functional Spaces			
Description of ACM	**ACM Location and Functional Space (Refer to Figure 4)**	**HA No.**	**Approximate Quantity**
9" x 9" Green Floor Tile	FS-12 2nd Floor Restroom	2	30 Square Feet
9" x 9" Black Floor Tile	FS-12 2nd Floor Restroom	3	50 Square Feet
Electrical Panel	FS-14 Stage and FS-18 Boiler Room	8	2 Panels
9" x 9" Tan Floor Tile	FS-2 1st Floor Main Hall Area	10	640 Square Feet
9" x 9" Brown Floor Tile	FS-2 1st Floor Main Hall Area	11	640 Square Feet
9" x 9" Black Floor Tile and Mastic	FS-2 1st Floor Main Hall Area	13	120 Square Feet
9" x 9" Dark Brown Floor Tile and Mastic	FS-6 Office	16	120 Square Feet
Aircell Pipe Insulation	FS-19 through FS-23 FS-25 & FS-26	17	340 Linear Feet
Mudded Fitting Insulation	FS-19 through FS-23 FS-25 & FS-26	18	40 Fittings
Boiler Interior Material	FS-18 Boiler Room	21	Not Estimated
Roofing Material	FS-27 Exterior	22	Not Estimated

Based on the findings of the site review and sampling, AKT Peerless recommends the following:

1. All ACM except for HA-17 snd HA-18 are considered non-friable and in good condition, no actions are required at this time. Non-friable materials may require removal if they will be disturbed by repairs or renovation activities.

2. HA-17 and HA-18 Aircell Pipe Insulation and Mudded Fitting Insulation are considered damaged and friable. It is recommended that this material be completely removed by a licensed abatement contractor before any renovation activities commence.

5.0 LIMITATIONS

The information and opinions obtained in this report are for the exclusive use of The City of Hamtramck. No distribution to or reliance by other parties may occur without the express written permission of AKT Peerless. AKT Peerless will not distribute this report without your written consent or as required by law or by a Court order. The information and opinions contained in the report are given in light of that assignment. The report must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein. Any third parties who have been extended the right to rely on the contents of this report by AKT Peerless (which is expressly required prior to any third-party release), expressly agrees to be bound by the original terms and conditions entered into by AKT Peerless and the City of Hamtramck.

Subject to the above and the terms and conditions, AKT Peerless accepts responsibility for the competent performance of its duties in executing the assignment and preparing reports in accordance with the normal standards of the profession, but disclaims any responsibility for consequential damages. Although AKT Peerless believes that results contained herein are reliable, AKT Peerless cannot warrant or guarantee that the information provided is exhaustive or that the information provided by the City of Hamtramck, or third parties is complete or accurate.

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James C. Fox, RPIH
Senior Project Manager
AKT Peerless Environmental & Energy Services
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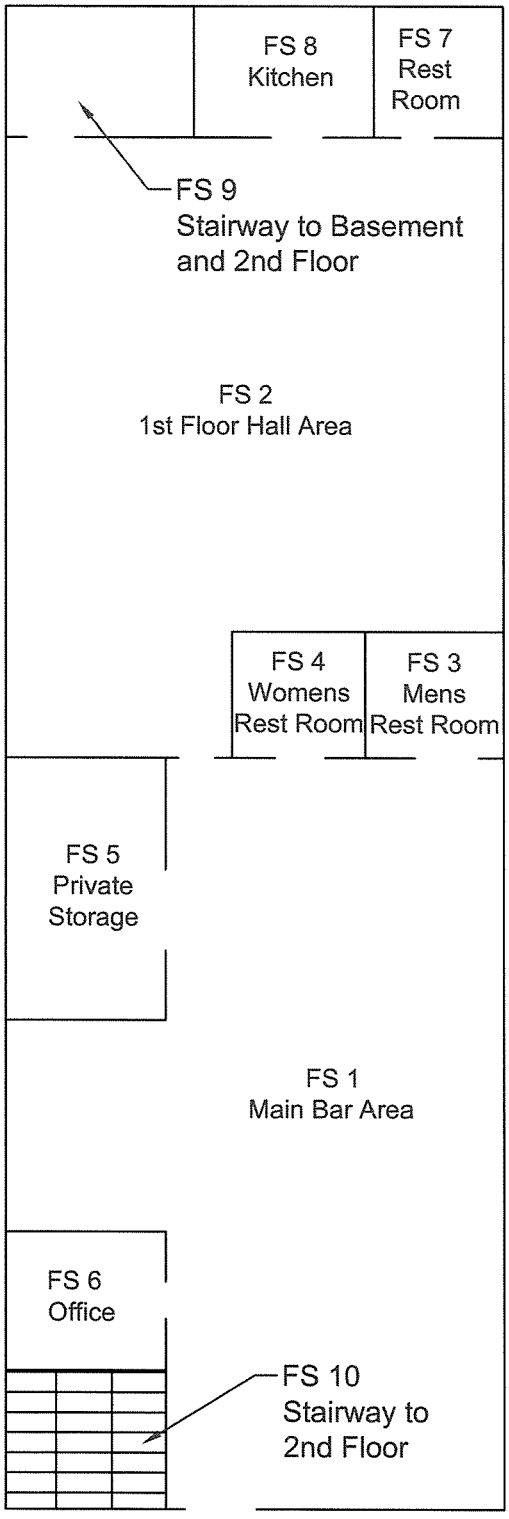
FIGURES



Scale is approximate, room locations area generalized

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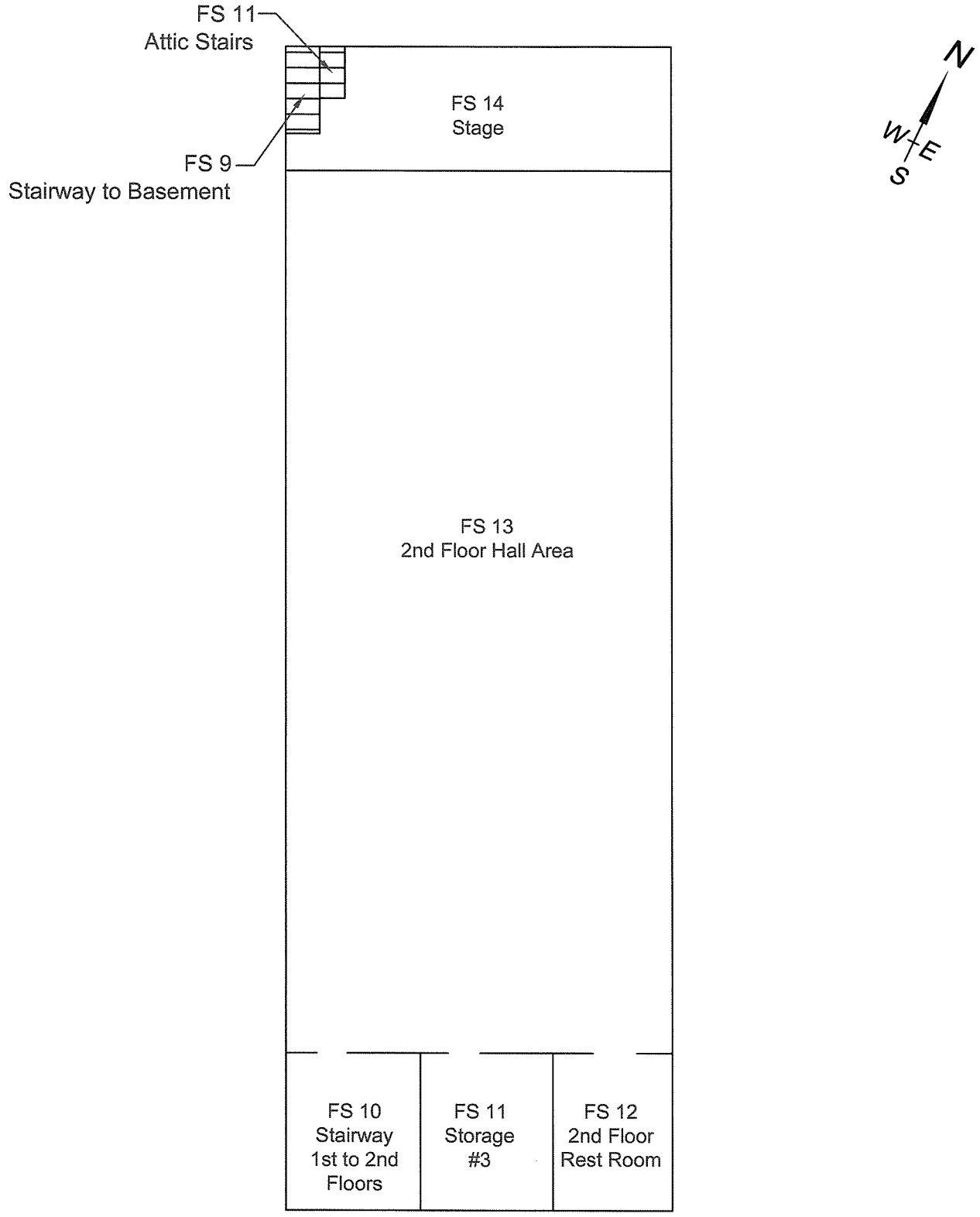
FUNCTIONAL SPACE-FIRST FLOOR

3105 HOLBROOK
HAMTRAMCK, MICHIGAN
PROJECT NUMBER : 6476D-4-190

DRAWN BY: OGO
DATE: 06-09-10

0 6 12
SCALE: 1" = 12±0

FIGURE 1



Scale is approximate, room locations area generalized

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FUNCTIONAL SPACE-SECOND FLOOR

3105 HOLBROOK
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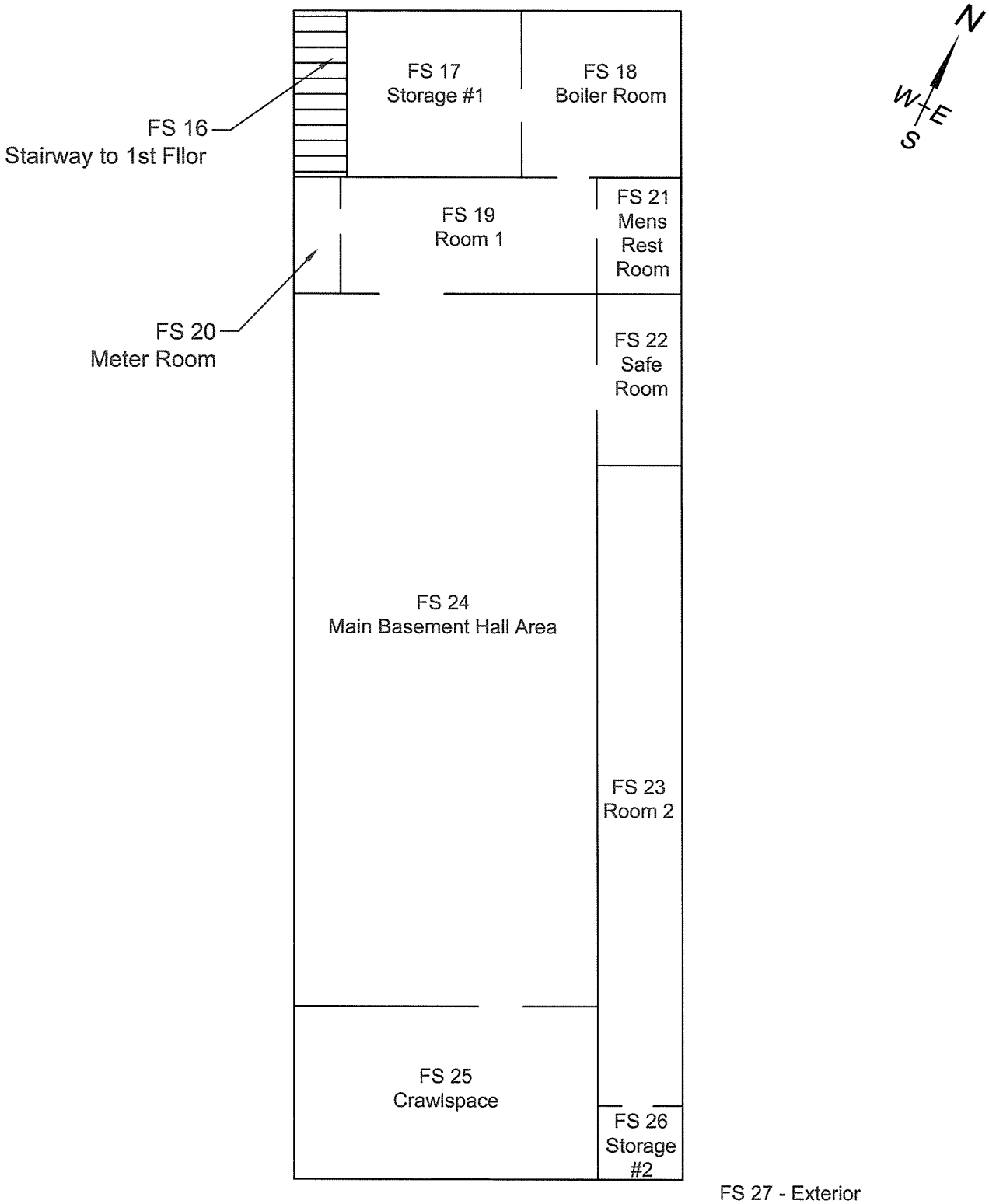
PROJECT NUMBER : 6476D-4-190

DRAWN BY: OGO
DATE: 06-09-10

0 6 12
SCALE: 1" = 12±0

FIGURE 2



Scale is approximate, room locations area generalized

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FUNCTIONAL SPACE-BASEMENT

3105 HOLBROOK
HAMTRAMCK, MICHIGAN
PROJECT NUMBER : 6476D-4-190

DRAWN BY: OGO
DATE: 06-09-10

0 6 12
SCALE: 1" = 12±0

FIGURE 3

APPENDIX A

ASBESTOS DATA TABLES

BULK SAMPLE MATERIAL INVENTORY
HOMOGENEOUS AREAS
FUNCTIONAL SPACE LISTING

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BULK SAMPLE MATERIAL INVENTORY

CLIENT: City of Hamtramck
PROJECT NO: 6476d-4-190
PROJECT NAME: 3105 Holbrook, Hamtramck, MI

HA No.	Material Description	Sample Number	Asbestos Content	Sample Location	Approx. Quantity (SF)	Friability	Condition
1	12" x 12" Brown Floor Tile	1-01	NAD	FS-1 Main Bar Area	680 SF	NF	Damaged
		1-02	NAD	FS-1 Main Bar Area			
		1-03	NAD	FS-1 Main Bar Area			
2	**9" x 9" Green Floor Tile**	**2-01**	**6% Chrysotile**	**FS-12 2nd Floor Restroom**	**30 SF**	**NF**	**Good**
		2-02	**N/A**	**FS-12 2nd Floor Restroom**			
		2-03	**N/A**	**FS-12 2nd Floor Restroom**			
2M	Mastic for HA-2	2-01	NAD	FS-12 2nd Floor Restroom	30 SF	NF	Good
		2-02	NAD	FS-12 2nd Floor Restroom			
		2-03	NAD	FS-12 2nd Floor Restroom			
3	**9" x 9" Black Floor Tile**	**3-01**	**10% Chrysotile**	**FS-12 2nd Floor Restroom**	**50 SF**	**NF**	**Good**
		3-02	**N/A**	**FS-12 2nd Floor Restroom**			
		3-03	**N/A**	**FS-12 2nd Floor Restroom**			
3M	Mastic for HA-3	3-01	NAD	FS-12 2nd Floor Restroom	50 SF	NF	Good
		3-02	NAD	FS-12 2nd Floor Restroom			
		3-03	NAD	FS-12 2nd Floor Restroom			
4	12" x 12" Black Floor Tile	4-01	NAD	FS-12 2nd Floor Restroom	6 SF	NF	Good
		4-02	NAD	FS-12 2nd Floor Restroom			
		4-03	NAD	FS-12 2nd Floor Restroom			

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BULK SAMPLE MATERIAL INVENTORY

CLIENT: City of Hamtramck
PROJECT NO: 6476d-4-190
PROJECT NAME: 3105 Holbrook, Hamtramck, MI

HA No.	Material Description	Sample Number	Asbestos Content	Sample Location	Approx. Quantity (SF)	Friability	Condition
5	2' x 4' White Ceiling Tile	5-01	NAD	FS-13 2nd Floor Hall Area	2,400 SF	NF	Damaged
		5-02	NAD	FS-13 2nd Floor Hall Area			
		5-03	NAD	FS-13 2nd Floor Hall Area			
6	2' x 2' White Ceiling Tile	6-01	NAD	FS-12 2nd Floor Restroom	80 SF	NF	Good
		6-02	NAD	FS-12 2nd Floor Restroom			
		6-03	NAD	FS-12 2nd Floor Restroom			
7	Black Glue on Wood Floor	7-01	NAD	FS-13 2nd Floor Hall Area	1,800 SF	NF	Good
		7-02	NAD	FS-13 2nd Floor Hall Area			
		7-03	NAD	FS-13 2nd Floor Hall Area			
8	**Electrical Panel**		**Assumed ACM**		**2 Panels**	**NF**	**Good**
9	12" x 12" Imitation Wood Floor Tile	9-01	NAD	FS-1 Mfg Area	260 SF	NF	Good
		9-02	NAD	FS-1 Mfg Area			
		9-03	NAD	FS-1 Mfg Area			
10	**9" x 9" Tan Floor Tile**	**10-1**	**8% Chrysotile**	**FS-2 1st Floor Main Hall Area**	**640 SF**	**NF**	**Good**
10M	Mastic for HA-10	10-01	NAD	FS-2 1st Floor Main Hall Area	640 SF	NF	Good

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BULK SAMPLE MATERIAL INVENTORY

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HA No.	Material Description	Sample Number	Asbestos Content	Sample Location	Approx. Quantity (SF)	Friability	Condition
11	**9" x 9" Brown Floor Tile**	**11-01**	**5% Chrysotile**	**FS-2 1st Floor Main Hall Area**	**640 SF**	**NF**	**Good**
11M	Mastic for HA-11	11-01	NAD	FS-2 1st Floor Main Hall Area	640 SF	NF	Good
12	9" x 9" Gray Floor Tile with streaks	12-01	NAD	FS-2 1st Floor Main Hall Area	40 SF	NF	Good
		12-02	NAD				
		12-03	NAD				
13	**9" x 9" Black Floor Tile**		**Assumed ACM**		**120 SF**	**NF**	**Good**
13M	**Mastic for HA-13**		**Assumed ACM**		**120 SF**	**NF**	**Good**
14	12" x 12" White Ceiling Tile (no glue pods)	14-01	NAD	FS-14 Stage	1,040 SF	NF	Good
		14-02	NAD	FS-14 Stage			
		14-03	NAD	FS-14 Stage			
15	Baseboard yellow glue	15-01	NAD	FS-1 Main Bar Area	400 LF	NF	Good
		15-02	NAD	FS-1 Main Bar Area			
		15-03	NAD	FS-1 Main Bar Area			
16	**9" x 9" Dark Brown Floor Tile and Mastic**		**Assumed ACM**		**120 SF**	**NF**	**Good**

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BULK SAMPLE MATERIAL INVENTORY

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HA No.	Material Description	Sample Number	Asbestos Content	Sample Location	Approx. Quantity (SF)	Friability	Condition
17	**Aircell Pipe Insulation**	**17-01**	**45% Chrysotile**	**FS-1 Mfg Area**	**340 LF**	**F**	**Damaged**
		17-02	**N/A**	**FS-1 Mfg Area**			
		17-03	**N/A**	**FS-1 Mfg Area**			
18	**Mudded Fitting Insulation**	**18-01**	**55% Chrysotile**	**FS-1 Mfg Area**	**40 Ftgs.**	**F**	**Damaged**
		18-02	**N/A**	**FS-1 Mfg Area**			
		18-03	**N/A**	**FS-1 Mfg Area**			
19	Gray Patching	19-01	NAD	FS-1 Mfg Area	20 SF	NF	Damaged
		19-02	NAD	FS-1 Mfg Area			
		19-03	NAD	FS-1 Mfg Area			
20	Plaster	20-01	NAD	FS-1 Mfg Area	NE	NF	Damaged
		20-02	NAD	FS-1 Mfg Area			
		20-03	NAD	FS-1 Mfg Area			
21	**Boiler Interior Material**		**Assumed ACM**		**NE**	**NF**	**Damaged**
22	**Roofing Material**		**Assumed ACM**		**NE**	**NF**	**Good**
23	Gray/White Window Caulk	23-01	NAD	FS-27 Exterior	40 LF	NF	Damaged
		23-02	NAD	FS-27 Exterior			
		23-03	NAD	FS-27 Exterior			

Notes
FS = Functional Space
SF = Square Feet
Bold = Indicates sample contains asbestos
NAD = No Asbestos Detected
N/A = Not analyzed
NE= Not Estimated

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HOMOGENEOUS AREA SUMMARY

CLIENT: City of Hamtramck
PROJECT NO: 6476d-4-190
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HA No.	Material Description	Location	Material Class	Approx. Quantity	(SF)(LF)	Friability	Condition
1	12" x 12" Brown Floor Tile	FS-1 Main Bar Area	MM	680	SF	NF	Damaged
2	**9" x 9" Green Floor Tile**	**FS-12 2nd Floor Restroom**	**MM**	**30**	**SF**	**NF**	**Good**
2M	Mastic for HA-2	FS-12 2nd Floor Restroom	MM	30	SF	NF	Good
3	**9" x 9" Black Floor Tile**	**FS-12 2nd Floor Restroom**	**MM**	**50**	**SF**	**NF**	**Good**
3M	Mastic for HA-3	FS-12 2nd Floor Restroom	MM	50	SF	NF	Good
4	12" x 12" Black Floor Tile	FS-12 2nd Floor Restroom	MM	6	SF	NF	Good
5	2' x 4' White Ceiling Tile	FS-13 2nd Floor Hall Area	MM	2,400	SF	NF	Damaged
6	2' x 2' White Ceiling Tile	FS-12 2nd Floor Restroom	MM	80	SF	NF	Good
7	Black Glue on Wood Floor	FS-13 2nd Floor Hall Area	MM	1,800	SF	NF	Good
8	**Electrical Panel**	**FS-14 Stage and FS-18 Boiler Room**	**MM**	**2**	**Panels**	**NF**	**Good**
9	12" x 12" Imitation Wood Floor Tile	FS-2 1st Floor Main Hall Area	MM	260	SF	NF	Good
10	**9" x 9" Tan Floor Tile**	**FS-2 1st Floor Main Hall Area**	**MM**	**640**	**SF**	**NF**	**Good**
10M	Mastic for HA-10	FS-2 1st Floor Main Hall Area	MM	640	SF	NF	Good
11	**9" x 9" Brown Floor Tile**	**FS-2 1st Floor Main Hall Area**	**MM**	**640**	**SF**	**NF**	**Good**

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HOMOGENEOUS AREA SUMMARY

CLIENT: City of Hamtramck
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HA No.	Material Description	Location	Material Class	Approx. Quantity	(SF)(LF)	Friability	Condition
11M	Mastic for HA-11	FS-2 1st Floor Main Hall Area	MM	640	SF	NF	Good
12	9" x 9" Gray Floor Tile with streaks	FS-2 1st Floor Main Hall Area	MM	40	SF	NF	Good
13	**9" x 9" Black Floor Tile**	**FS-2 1st Floor Main Hall Area**	**MM**	**120**	**SF**	**NF**	**Good**
13M	**Mastic for HA-13**	**FS-2 1st Floor Main Hall Area**	**MM**	**120**	**SF**	**NF**	**Good**
14	12" x 12" White Ceiling Tile (no glue pods)	FS-13 2nd Floor Hall Area, FS-14 Stage	MM	1,040	SF	NF	Good
15	Baseboard yellow glue	FS-1 Main Bar Area, FS-5 Private Storage, FS-6 Office	MM	400	LF	NF	Good
16	**9" x 9" Dark Brown Floor Tile and Mastic**	**FS-6 Office**	**MM**	**120**	**SF**	**NF**	**Good**
17	**Aircell Pipe Insulation**	**FS-19,FS-20, FS-21, FS-22, FS-23, FS-25, FS-26**	**TSI**	**340**	**LF**	**F**	**Damaged**
18	**Mudded Fitting Insulation**	**FS-19,FS-20, FS-21, FS-22, FS-23, FS-25, FS-26**	**TSI**	**40**	**Ftgs.**	**F**	**Damaged**
19	Gray Patching	FS-23 Room #2	MM	20	SF	NF	Damaged
20	Plaster	Throughout Building	MM	NE		NF	Damaged
21	**Boiler Interior Material**	**FS-18 Boiler Room**	**MM**	**NE**		**NF**	**Good**
22	**Roofing Material**	**FS-27 Exterior**	**MM**	**NE**		**NF**	**Good**
23	Gray/White Window Caulk	FS-27 Exterior	MM	40	LF	NF	Damaged

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FUNCTIONAL SPACE LISTING

CLIENT: City of Hamtramck
PROJECT NO: 6476d-4-190
PROJECT NAME: 3105 Holbrook, Hamtramck, MI

Functional Space No.	Description
1	Main Bar Area
2	1st Floor Main Hall Area
3	Men's Restroom
4	Women's Restroom
5	Private Storage
6	Office
7	Rest Room
8	Kitchen
9	Stairway to Basement and 1st
10	Stairway to Basement and 1st
11	Storage #1
12	2nd Floor Rest Room
13	2nd Floor Hall Area
14	Stage
15	Attic and Attic Stairs
16	Stairway to the Basement

AKTPEERLESS
environmental & energy services

FUNCTIONAL SPACE LISTING

CLIENT: City of Hamtramck
PROJECT NO: 6476d-4-190
PROJECT NAME: 3105 Holbrook, Hamtramck, MI

Functional Space No.	Description
17	Storage #2
18	Boiler Room
19	Room #1
20	Meter Room
21	Men's Rest Room
22	Safe Room
23	Room #2
24	Main Basement Area
25	Crawl Space
26	Storage #3
27	Exterior

APPENDIX B

LABORATORY DATA SHEETS

Fibertec
Industrial hygiene
services, inc.

BULK SAMPLE ANALYTICAL REPORT

CLIENT: AKT PEERLESS
FIBERTEC PROJECT NO.: 28234-1
NVLAP ACCREDITATION #101510-0

DATE SAMPLED: 5/26/10
DATE SUBMITTED: 5/28/10
DATE ANALYZED: 6/1/10 & 6/2/10

PROJECT:
105 HOLBROOK, HAMTRAMCK, MICHIGAN 6476d-4-190, 52 SUBMITTED BULK SAMPLES, 61 SAMPLE LAYERS ANALYZED.

CLIENT P.O.#: N/A
C.O.C. NO.: N/A

Bulk samples are analyzed utilizing the USEPA Test Method EPA/600/R-93/116. The constituent percent reported represents an estimate of the area percent of the component. The test report relates only to items tested. This report is not intended to be used as a product endorsement by NVLAP or any agency of the U.S. Government. Fine fibers like those in floor tile may not be discernible by this method. This report shall not be reproduced, except in full, without written approval of the laboratory. Revision 3.0 dated 2/17/09
NAD-No Asbestos Detected. Individual sample layers are homogeneous, unless otherwise noted. Test items were received in an acceptable condition.

FIBERTEC SAMPLE NO.	CLIENT I.D. NO.	DESCRIPTION/ LOCATION	ASBESTOS TYPE	PERCENT ASBESTOS	ANALYST INITIALS	NON-ASBESTOS-CONTAINING PORTION
1-1	1-1	LIGHT BROWN TABULAR MATERIAL, 12" X 12" BROWN FLOOR TILE, LAYER 1 OF 2.	NAD		AJP	100% NON FIBROUS MATTE
1-1	1-1	BROWN ASPHALTIC MATERIAL, 12" X 12" BROWN FLOOR TILE MASTIC, LAYER 2 OF 2.	NAD		AJP	98% NON FIBROUS MATTEI 2% CELLULOSE FIBERS
1-2	1-2	LIGHT BROWN TABULAR MATERIAL, 12" X 12" BROWN FLOOR TILE, LAYER 1 OF 2.	NAD		AJP	100% NON FIBROUS MATTE
1-2	1-2	DARK YELLOW ASPHALTIC MATERIAL, 12" X 12" BROWN FLOOR TILE MASTIC, LAYER 2 OF 2.	NAD		AJP	>99% NON FIBROUS MATTE <1% CELLULOSE FIBERS
1-3	1-3	LIGHT BROWN TABULAR MATERIAL, 12" X 12" BROWN FLOOR TILE, LAYER 1 OF 2.	NAD		AJP	100% NON FIBROUS MATTE
1-3	1-3	DARK YELLOW ASPHALTIC MATERIAL, 12" X 12" BROWN FLOOR TILE MASTIC, LAYER 2 OF 2.	NAD		AJP	>99% NON FIBROUS MATTE <1% CELLULOSE FIBERS
2-1	2-1	DARK GREEN AND BLACK TABULAR FIBROUS MATERIAL, GREEN FLOOR TILE, 9" X 9", LAYER 1 OF 2.	CHRYSOTILE	6%	AJP	94% NON FIBROUS MATTEI

COMMENTS:

1914 Holloway Drive Holt, Michigan 48842 Telephone: (517) 699-0345 Facsimile: (517) 699-0382

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services, inc.

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CLIENT P.O.#: N/A
C.O.C. NO.: N/A

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2-1	2-1	BLACK ASPHALTIC MATERIAL, GREEN FLOOR TILE MASTIC, 9" X 9", LAYER 2 OF 2.	NAD		AJP	99% NON FIBROUS MATTEI 1% CELLULOSE FIBERS
3-1	3-1	BLACK TABULAR FIBROUS MATERIAL, 9" X 9" BLACK FLOOR TILE.	CHRYSOTILE	10%	AJP	90% NON FIBROUS MATTEI
4-1	4-1	BLACK TABULAR MATERIAL, 12" X 12" BLACK FLOOR TILE, LAYER 1 OF 2.	NAD		AJP	100% NON FIBROUS MATTEI
4-1	4-1	YELLOW BRITTLE MATERIAL, 12" X 12" BLACK FLOOR TILE MASTIC, LAYER 2 OF 2.	NAD		AJP	100% NON FIBROUS MATTEI
4-2	4-2	BLACK TABULAR MATERIAL, 12" X 12" BLACK FLOOR TILE, LAYER 1 OF 2.	NAD		AJP	100% NON FIBROUS MATTEI
4-2	4-2	YELLOW BRITTLE MATERIAL, 12" X 12" BLACK FLOOR TILE MASTIC, LAYER 2 OF 2.	NAD		AJP	99% NON FIBROUS MATTEI 1% CELLULOSE FIBERS
4-3	4-3	BLACK TABULAR MATERIAL, 12" X 12" BLACK FLOOR TILE, LAYER 1 OF 2.	NAD		AJP	100% NON FIBROUS MATTEI

COMMENTS:

Sample #3-1 - No mastic submitted with sample.

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4-3	4-3	YELLOW BRITTLE MATERIAL, 12" X 12" BLACK FLOOR TILE MASTIC, LAYER 2 OF 2.	NAD		AJP	100% NON FIBROUS MATTEI
5-1	5-1	TAN FIBROUS MATERIAL, 2' X 4' CEILING TILE.	NAD		AJP	50% CELLULOSE FIBERS 45% NON FIBROUS MATTEI 5% FIBROUS GLASS
5-2	5-2	TAN FIBROUS MATERIAL, 2' X 4' CEILING TILE.	NAD		AJP	54% CELLULOSE FIBERS 40% NON FIBROUS MATTEI 6% FIBROUS GLASS
5-3	5-3	TAN FIBROUS MATERIAL, 2' X 4' CEILING TILE.	NAD		AJP	55% CELLULOSE FIBERS 40% NON FIBROUS MATTEI 5% FIBROUS GLASS
6-1	6-1	TAN FIBROUS MATERIAL, 2' X 2' CEILING TILE.	NAD		AJP	55% CELLULOSE FIBERS 40% NON FIBROUS MATTEI 5% FIBROUS GLASS
6-2	6-2	TAN FIBROUS MATERIAL, 2' X 2' CEILING TILE.	NAD		AJP	48% CELLULOSE FIBERS 45% NON FIBROUS MATTEI 7% FIBROUS GLASS

COMMENTS:

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6-3	6-3	TAN FIBROUS MATERIAL, 2' X 2' CEILING TILE.	NAD		AJP	50% CELLULOSE FIBERS 43% NON FIBROUS MATTEI 7% FIBROUS GLASS
7-1	7-1	BLACK ASPHALTIC MATERIAL, BLACK GLUE ON WOOD FLOOR.	NAD		AJP	100% NON FIBROUS MATTEI
7-2	7-2	BLACK ASPHALTIC MATERIAL, BLACK GLUE ON WOOD FLOOR.	NAD		AJP	98% NON FIBROUS MATTEI 2% CELLULOSE FIBERS
7-3	7-3	BLACK ASPHALTIC MATERIAL, BLACK GLUE ON WOOD FLOOR.	NAD		AJP	99% NON FIBROUS MATTEI 1% CELLULOSE FIBERS
9-1	9-1	BROWN AND GRAY TABULAR MATERIAL, IMITATION WOOD FLOOR TILE, LAYER 1 OF 2.	NAD		AJP	100% NON FIBROUS MATTEI
9-1	9-1	CLEAR ASPHALTIC MATERIAL, IMITATION WOOD FLOOR TILE MASTIC, LAYER 2 OF 2.	NAD		AJP	98% NON FIBROUS MATTEI 2% CELLULOSE FIBERS
9-2	9-2	BROWN AND GRAY TABULAR MATERIAL, IMITATION WOOD FLOOR TILE, LAYER 1 OF 2.	NAD		AJP	>99% NON FIBROUS MATTE <1% CELLULOSE FIBERS

COMMENTS:

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9-2	9-2	CLEAR ASPHALTIC MATERIAL, IMITATION WOOD FLOOR TILE MASTIC, LAYER 2 OF 2.	NAD		AJP	97% NON FIBROUS MATTEI 3% CELLULOSE FIBERS
9-3	9-3	BROWN AND GRAY TABULAR MATERIAL, IMITATION WOOD FLOOR TILE, LAYER 1 OF 2.	NAD		AJP	>99% NON FIBROUS MATTE <1% CELLULOSE FIBERS
9-3	9-3	CLEAR ASPHALTIC MATERIAL, IMITATION WOOD FLOOR TILE MASTIC, LAYER 2 OF 2.	NAD		AJP	96% NON FIBROUS MATTEI 4% CELLULOSE FIBERS
10-1	10-1	BROWN TABULAR FIBROUS MATERIAL, TAN FLOOR TILE, LAYER 1 OF 2.	CHRYSOTILE	8%	AJP	92% NON FIBROUS MATTEI
10-1	10-1	BLACK ASPHALTIC MATERIAL, TAN FLOOR TILE MASTIC, LAYER 2 OF 2.	NAD		AJP	99% NON FIBROUS MATTEI 1% CELLULOSE FIBERS
11-1	11-1	BROWN TABULAR FIBROUS MATERIAL, BROWN FLOOR TILE, LAYER 1 OF 2.	CHRYSOTILE	5%	AJP	95% NON FIBROUS MATTEI
11-1	11-1	BLACK ASPHALTIC MATERIAL, BROWN FLOOR TILE MASTIC, LAYER 2 OF 2.	NAD		AJP	>99% NON FIBROUS MATTE <1% CELLULOSE FIBERS

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12-1	12-1	TAN TABULAR MATERIAL, GRAY FLOOR TILE, LAYER 1 OF 2.	CHRYSOTILE	<1%	AJP	>99% NON FIBROUS MATTE
12-1	12-1	YELLOW BRITTLE MATERIAL, GRAY FLOOR TILE MASTIC, LAYER 2 OF 2.	NAD		AJP	100% NON FIBROUS MATTE
12-2	12-2	TAN TABULAR MATERIAL, GRAY FLOOR TILE, LAYER 1 OF 2.	CHRYSOTILE	<1%	AJP	>99% NON FIBROUS MATTE
12-2	12-2	YELLOW BRITTLE MATERIAL, GRAY FLOOR TILE MASTIC, LAYER 2 OF 2.	NAD		AJP	100% NON FIBROUS MATTE
12-3	12-3	TAN TABULAR MATERIAL, GRAY FLOOR TILE, LAYER 1 OF 2.	CHRYSOTILE	<1%	AJP	>99% NON FIBROUS MATTE
12-3	12-3	YELLOW BRITTLE MATERIAL, GRAY FLOOR TILE MASTIC, LAYER 2 OF 2.	NAD		AJP	99% NON FIBROUS MATTE 1% CELLULOSE FIBERS
14-1	14-1	BROWN FIBROUS MATERIAL, 12" X 12" CEILING TILE.	NAD		AJP	100% CELLULOSE FIBERS

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14-2	14-2	BROWN FIBROUS MATERIAL, 12" X 12" CEILING TILE.	NAD		AJP	100% CELLULOSE FIBERS
14-3	14-3	BROWN FIBROUS MATERIAL, 12" X 12" CEILING TILE.	NAD		AJP	100% CELLULOSE FIBERS
15-1	15-1	BROWN TABULAR MATERIAL, BASEBOARD, LAYER 1 OF 2.	NAD		AJP	100% NON FIBROUS MATTE
15-1	15-1	YELLOW ASPHALTIC MATERIAL, BASEBOARD GLUE, LAYER 2 OF 2.	NAD		AJP	100% NON FIBROUS MATTE
15-2	15-2	BROWN TABULAR MATERIAL, BASEBOARD, LAYER 1 OF 2.	NAD		AJP	100% NON FIBROUS MATTE
15-2	15-2	YELLOW ASPHALTIC MATERIAL, BASEBOARD GLUE, LAYER 2 OF 2.	NAD		AJP	100% NON FIBROUS MATTE
15-3	15-3	BROWN TABULAR MATERIAL, BASEBOARD, LAYER 1 OF 2.	NAD		AJP	100% NON FIBROUS MATTE
15-3	15-3	YELLOW ASPHALTIC MATERIAL, BASEBOARD GLUE, LAYER 2 OF 2.	NAD		AJP	100% NON FIBROUS MATTE

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17-1	17-1	WHITE FIBROUS MATERIAL, PIPE LINE INSULATION.	CHRYSOTILE	45%	AJP	40% NON FIBROUS MATTEI 15% CELLULOSE FIBERS
18-1	18-1	OFF-WHITE FIBROUS MATERIAL, ELBOWS PIPE INSULATION.	CHRYSOTILE	55%	AJP	45% NON FIBROUS MATTEI
19-1	19-1	GRAY CEMENTITIOUS MATERIAL, PATCHING.	NAD		AJP	100% NON FIBROUS MATTEI
20-1	20-1	WHITE GRANULAR MATERIAL, PLASTER, LAYER 1 OF 2.	NAD		AJP	100% NON FIBROUS MATTEI
20-1	20-1	LIGHT TAN GRANULAR MATERIAL, PLASTER, LAYER 2 OF 2.	NAD		AJP	100% NON FIBROUS MATTEI
20-2	20-2	WHITE GRANULAR MATERIAL, PLASTER, LAYER 1 OF 2.	NAD		AJP	100% NON FIBROUS MATTEI
20-2	20-2	LIGHT TAN GRANULAR MATERIAL, PLASTER, LAYER 2 OF 2.	NAD		AJP	100% NON FIBROUS MATTEI

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20-3	20-3	WHITE GRANULAR MATERIAL, PLASTER, LAYER 1 OF 2.	NAD		AJP	100% NON FIBROUS MATTEI
20-3	20-3	TAN GRANULAR MATERIAL, PLASTER, LAYER 2 OF 2.	NAD		AJP	100% NON FIBROUS MATTEI
23-1	23-1	GRAY GRANULAR MATERIAL, WINDOW CAULK.	NAD		AJP	100% NON FIBROUS MATTEI
23-2	23-2	GRAY GRANULAR MATERIAL, WINDOW CAULK.	NAD		AJP	100% NON FIBROUS MATTEI
23-3	23-3	GRAY GRANULAR MATERIAL, WINDOW CAULK.	NAD		AJP	100% NON FIBROUS MATTEI

COMMENTS:

DATE:

APPROVED SIGNATORY

1914 Holloway Drive Holt, Michigan 48842 Telephone: (517) 699-0345 Facsimile: (517) 699-0382